

CURRENT ELECTRICITY

1. Define an electric current. An electric current is flow of charge particles either ions or electrons [1]
2. Differentiate between 'Electron flow (electron current)' and 'Conventional current'. [2]
3. Explain with the aid of a diagram, how a Metallic object conducts an electric current – (i.e. METALLIC CONDUCTION). [3]
4. Differentiate between a Conductor and an Insulator. A Conductor is a substance which will allow an electric current to flow through it, whilst an insulator is a substance which does not allow electric current to flow through it. [2]
5. List 3 materials/substances that are Conductors. Metals, Graphite, Electrolytes [3]
6. List 3 materials/substances that are Insulators. Ceramics, Glass Rubber, Plastics, Dry Wood, Paper [3]
7. State what is an 'Electrolyte' and give 3 examples of substances that are electrolytes. An electrolyte is a molten or aqueous ionic compound which conducts an electric [3]
8. Briefly explain how an 'electrolyte' conducts an electric current – (i.e. ELECTROLYTIC CONDUCTION). [3]
9. Copy and complete the items 9a and 9b) equations below which relate the current (I), the time taken (t) and the quantity of Charge (Q) that flows through a conductor.

$$i) \quad \text{Quantity of Charge} = \text{Current} \times \text{time taken} \quad [1]$$

$$ii) \quad Q = I \times t \quad [1]$$

10. State the S.I. unit for each of the physical quantities named in item 8.

Quantity of Charge, S.I. unit is the, **Coulomb (C)** [3]

Current, S.I. unit is the, **Ampere (A)**

time, S.I. unit is the, **second (s)**

11. State the definitions for the S.I. unit of :

i) Quantity of Charge [1]

ii) Current [1]

A Coulomb is defined as the amount of charge which flows in 1 second past any point in a circuit in which there is a steady current of 1 ampere.

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